

Please amend the application as follows:

In the Claims

Please amend Claim 2. Amendments to the claims are indicated in the attached "Marked Up Version of Amendments" (page i).

2. (Three Times Amended) A kit comprising:
 - (a) an array comprising one or more oligonucleotide tags fixed to a solid substrate, wherein each oligonucleotide tag comprises a unique known arbitrary nucleotide sequence of sufficient length to hybridize to a locus-specific tagged oligonucleotide;
 - (b) one or more locus-specific tagged oligonucleotides, wherein each locus-specific tagged oligonucleotide has at its first (5') end nucleotide sequence which hybridizes to the arbitrary sequence of a corresponding oligonucleotide tag on the array, and has at its second (3') end nucleotide sequence complementary to target a polynucleotide sequence in a sample wherein the last nucleotide at the 3' end of the locus-specific tagged oligonucleotide hybridizes exactly one nucleotide before a nucleotide to be queried in the target polynucleotide sequence; and
 - (c) at least two labeled dideoxynucleotides, each of which is distinctly labeled.

REMARKS

Claim Amendments:

Claim 2 has been amended to recite proper antecedent basis. No new matter has been added.

Claims 2-40 are pending in this application. Claims 3-19 and 26-40 are withdrawn from consideration as a result of a restriction requirement. Claims 2 and 20-25 are currently under examination.